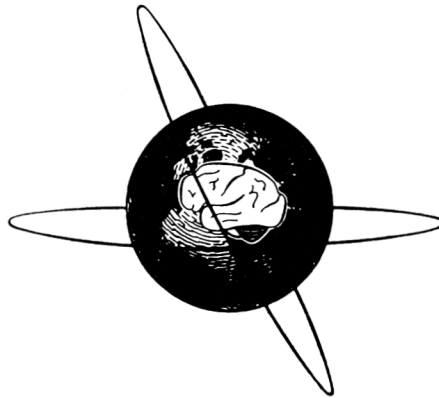


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51. The problem of 'hydantoin neuropathy' in long term treatment. — K.-H. Krause, P. Berlit and G. Kynast (Univ.-Klinik, Heidelberg)

Five hundred and forty-eight long-term treated epileptics, aged 20–40 years, without other possible causes of neuropathy, were examined by neurography under standardized conditions (motor and sensory NCV of median, motor NCV of peroneal nerve). The NCV was reduced when compared to normals of the same age ($N = 70$): median nerve mot. 55.8 ± 4.0 vs. 57.5 ± 3.3 ($P = 0.002$ in Wilcoxon test), median nerve sens. 61.1 ± 4.8 vs. 62.7 ± 3.9 ($P = 0.0014$) and peroneal nerve 49.3 ± 3.9 vs. 51.9 ± 4.0 m/sec ($P = 0.0001$). At the time of examination 53 patients were under monotherapy with phenytoin, 81 with primidone, 53 with carbamazepine and 31 with valproate. By comparison of these 4 groups the patients treated with phenytoin showed the best values of NCV, the patients with carbamazepine the lowest values ($\bar{x} \pm S.D.$ for median nerve mot., median nerve sens., and peroneal nerve mot.: phenytoin 57.5 ± 4.2 , 62.7 ± 4.5 , 50.0 ± 3.8 ; primidone 56.1 ± 4.2 , 62.2 ± 4.4 , 50.0 ± 3.9 ; carbamazepine 54.9 ± 4.3 , 60.7 ± 6.0 , 49.3 ± 4.5 and valproate 56.8 ± 3.9 , 62.2 ± 4.6 , 49.4 ± 3.6 m/sec). The percentage of patients with at least 1 slowed NCV was 7.6 in phenytoin, 12.4 in primidone, 26.4 in carbamazepine and 12.9 in valproate treatment. Because of these findings the term hydantoin neuropathy should be avoided in long-term treatment; we propose the term anticonvulsant neuropathy.